N

	Application No.	Applicant(s)	
	10/764 600	DWARKADAS ET AL.	
Notice of Allowability	10/764,688 Examiner	Art Unit	
	ANH PHUNG	2824	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in ) or other appropriate commu RIGHTS. This application is s	nthis application. If not included nication will be mailed in due cours	se.THIS
1. This communication is responsive to the application filed to	on January 27, 2004		
2. ☑ The allowed claim(s) is/are <u>1-12</u> .			
3. $\square$ The drawings filed on <u>27 January 2004</u> are accepted by the	ne Examiner.		
4. ☐ Acknowledgment is made of a claim for foreign priority to a) ☐ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents have	e been received.		
2. Certified copies of the priority documents have	''		
3. Copies of the certified copies of the priority do	ocuments have been received	in this national stage application	from the
International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE  5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv  6. CORRECTED DRAWINGS (as "replacement sheets") mu  (a) including changes required by the Notice of Draftsper	MENT of this application.  nitted. Note the attached EXA es reason(s) why the oath or  st be submitted.	MINER'S AMENDMENT or NOTIO declaration is deficient.	
1) hereto or 2) to Paper No./Mail Date	·		
(b) including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment or	in the Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the header according to 37 CF	ne drawingsin the front (not the back R 1.121(d).	() of
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>			ne
Attachment(s)			
1. Notice of References Cited (PTO-892)	5. Notice of Inf	ormal Patent Application (PTO-152	2)
2.  Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Su Paper No./I	mmary (PTO-413),	
3.  ☐ Information Disclosure Statements (PTO 1449 or PTO/SB/0 Paper No./Mail Date 1/27/04	•	Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit		Statement of Reasons for Allowand	ce
of Biological Material	9. ⊠ Other <u>Searc</u>		
	Our	h Thung	
	PRI	ANH PHUNG MARY EXAMINER	

Application/Control Number: 10/764,688 Page 2

Art Unit: 2824

### **Detailed Office Action**

1. In response to the U.S. Application Ser. No. 10/764,688 filed on January 27, 2004, claims **13-24** are pending in the application.

### Examiner's amendment

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The specification has been amended as follows:

On page 2, delete "now pending" and insert -- now U.S. Pat. No. 6,684,298, issued on December 16, 2003 --.

The examiner's amendment has been made in order to place the application in a condition for allowance.

## Information Disclosure Statement

3. This office acknowledges receipt of the following items from the Applicant: Information Disclosure Statement (IDS) filed on January 27, 2004.
Information disclosed and listed on PTO 1449 was considered.

# Examiner's Statement of Reasons for Allowance

4. Claims **13-24** are allowed.

Chauvel et al. (US 6,097,660), Chauvel et al. (US 6,141,235) and Takahashi (US 6,097,660) disclose a data cache and associated method similar to that of the present application, but fail to teach:

Application/Control Number: 10/764,688 Page 3

Art Unit: 2824

"the method comprising:

(a) storing performance information for the data cache;

(b) determining, from the performance information, whether the data cache has a

miss rate exceeding a threshold;

(c) determining whether the variable size is equal to a maximum size; and

(d) if the miss rate exceeds the threshold and the variable size is not equal to the

maximum size, controlling the data cache to increase the variable size" as claimed in

the independent claim 13; or

"the method comprising:

(a) storing performance information for the translation look-aside buffer;

(b) determining, from the performance information, whether the translation look-

aside buffer has a miss rate exceeding a first threshold;

(c) determining, from the performance information, whether the translation look-

aside buffer has a usage less than a second threshold;

(d) if the miss rate exceeds the first threshold, controlling the translation look-aside

buffer to increase the variable size; and

(e) if the use is less than the second threshold, controlling the translation look-

aside buffer to decrease the variable size" as claimed in the independent claim 22.

Any comments considered necessary by applicants must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comment on

Statement of Reasons for Allowance".

Application/Control Number: 10/764,688 Page 4

Art Unit: 2824

### Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANH PHUNG whose telephone number is (571) 272-1883. The examiner can normally be reached on Monday-Friday from 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, RICHARD ELMS, can be reached on (571) 272-1869. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Art Unit: 2824

**AKP** 

**PRIMARY EXAMINER**